

### ABSTRACT OF THE DISCLOSURE

A closed mixer includes a mixing chamber, a pair of rotors, and a pressing ram. The pressing ram is movable between a resting condition, which allows introduction of material into the mixing chamber, and a working condition. A method of processing polymer-based mixtures and compounds in the closed mixer includes the steps of introducing material into the mixing chamber, moving the pressing ram from the resting condition to an upper end-of-stroke position, and moving the pressing ram from the upper end-of-stroke position to a lower end-of-stroke position. A position-time profile of the pressing ram is controlled during the step of moving the pressing ram from the upper end-of-stroke position to the lower end-of-stroke position.

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